

<u>102</u>

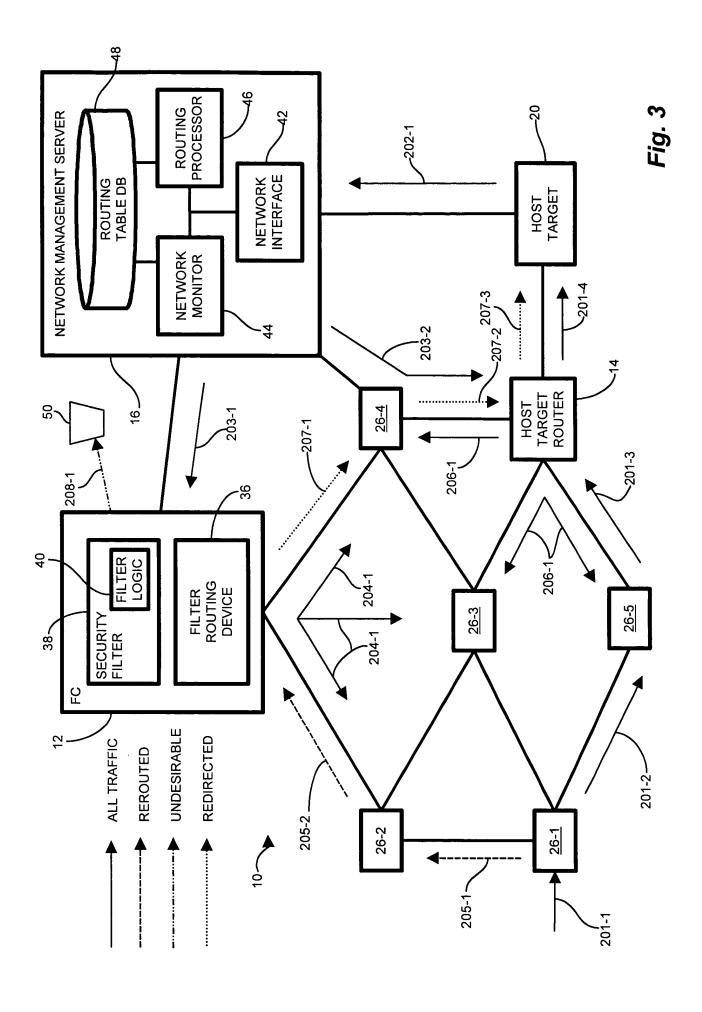
RECEIVE AN INDICATION OF UNDESIRABLE
MESSAGE TRAFFIC DIRECTED TO A
PARTICULAR TARGET NODE VIA A FIRST
TRANSPORT MECHANISM IN A
COMMUNICATIONS NETWORK

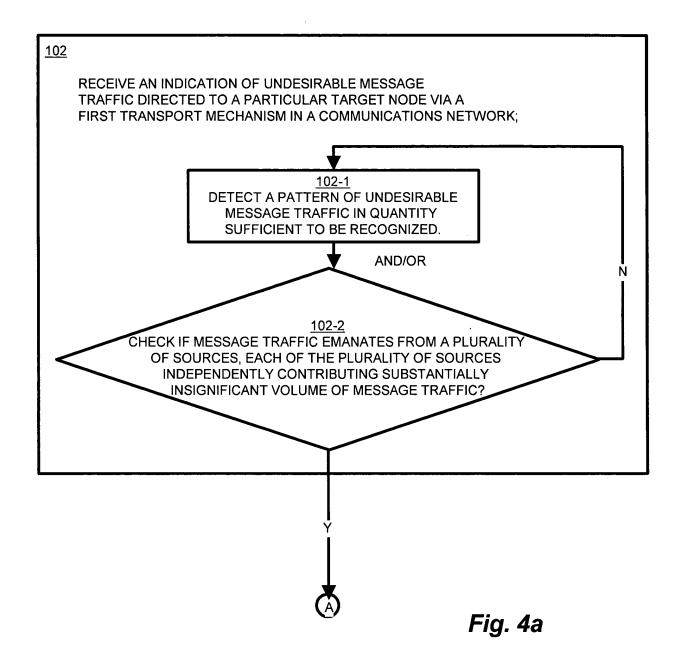
<u>104</u>

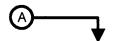
REROUTE ALL MESSAGE TRAFFIC CARRIED VIA THE FIRST TRANSPORT MECHANISM IN THE COMMUNICATIONS NETWORK AND DIRECTED TO THE PARTICULAR TARGET NODE, TO A FILTER COMPLEX OPERABLE TO DISTINGUISH DESIRABLE MESSAGE TRAFFIC FROM UNDESIRABLE MESSAGE TRAFFIC

106

DIRECT THE FILTER COMPLEX TO TRANSMIT, VIA A SECOND TRANSPORT MECHANISM OVER THE COMMUNICATIONS NETWORK, THE DESIRABLE MESSAGE TRAFFIC TO THE TARGET NODE







104 REROUTE ALL MESSAGE TRAFFIC CARRIED VIA THE FIRST TRANSPORT MECHANISM IN THE COMMUNICATIONS NETWORK AND DIRECTED TO THE PARTICULAR TARGET NODE, TO A FILTER COMPLEX OPERABLE TO DISTINGUISH DESIRABLE MESSAGE TRAFFIC FROM UNDESIRABLE MESSAGE TRAFFIC

104-1 DIRECT THE FILTER COMPLEX TO FILTER THE MESSAGE TRAFFIC TO SUBDIVIDE DESIRABLE MESSAGE TRAFFIC FROM UNDESIRABLE MESSAGE TRAFFIC

104-1A

DIRECT THE FILTER COMPLEX FROM A NETWORK MANAGEMENT SERVER OPERABLE TO SEND A REROUTE MESSAGE TO THE FILTERING COMPLEX



104-2

FILTER COMPLEX INCLUDES A SECURITY FILTER HAVING FILTERING LOGIC FOR PERFORMING FILTERING BY IDENTIFYING SEQUENCES INDICATIVE OF UNDESIRABLE MESSAGE TRAFFIC



SEND REROUTE MESSAGE INDICATIVE OF THE FILTERING COMPLEX RECEIVING MESSAGE TRAFFIC IN THE FIRST TRANSPORT MECHANISM INTENDED FOR THE TARGET NODE VIA THE TARGET NODE ROUTER SERVING THE TARGET NODE



104-4

FILTER COMPLEX FURTHER INCLUDES A FILTER ROUTING DEVICE IN COMMUNICATION WITH OTHER ROUTING DEVICES IN THE COMMUNICATIONS NETWORK AND COUPLED TO A FILTERING DEVICE OPERABLE TO EMPLOY THE SECURITY FILTER TO ANALYZE MESSAGE TRAFFIC



104-5 FILTER ROUTING DEVICE IN THE FILTERING COMPLEX IS OPERABLE TO COMMUNICATE ACCORDING TO THE FIRST AND SECOND TRANSPORT MECHANISMS

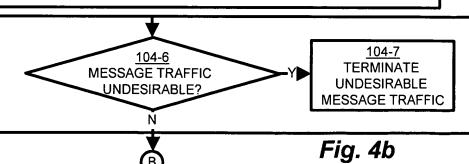
104-5A

PROPAGATE, VIA A STANDARD PROTOCOL CORRESPONDING TO THE FIRST TRANSPORT MECHANISM, A NODE ADDRESS OTHER THAN THE NODE ADDRESS CORRESPONDING TO THE TARGET NODE

AND/OR

104-5B

REROUTEVIA STATIC ROUTE IN FIRST TRANSPORT MECHANISM, FROM ROUTER SERVING THE TARGET NODE TO THE FILTER ROUTER SERVING THE FILTER COMPLEX





106 DIRECT THE FILTERING COMPLEX TO TRANSMIT, VIA A SECOND TRANSPORT MECHANISM OVER THE COMMUNICATIONS NETWORK, THE DESIRABLE MESSAGE TRAFFIC TO THE TARGET NODE

106-1 DIRECT A TARGET NODE ROUTER SERVING THE TARGET NODE FROM THE NETWORK MANAGEMENT SERVER, THE NETWORK MANAGEMENT SERVER OPERABLE TO SEND A REDIRECT MESSAGE TO THE TARGET NODE ROUTER

106-1A

REDIRECT MESSAGE IS INDICATIVE THAT THE ROUTER SERVING THE TARGET NODE IS NOT TO RECEIVE MESSAGE TRAFFIC IN THE FIRST TRANSPORT MECHANISM CORRESPONDING TO THE TARGET NODE

AND/OR

106-1B

FIRST TRANSPORT MECHANISM CORRESPONDS TO A PUBLIC ACCESS PROTOCOL ADAPTED FOR COMMUNICATION VIA A PLURALITY OF DISSIMILAR NETWORK SWITCHING DEVICES

106-2 SEND REDIRECT MESSAGE INDICATIVE THAT THE TARGET ROUTER SERVING THE TARGET NODE RECEIVES MESSAGE TRAFFIC VIA THE SECOND TRANSPORT MECHANISM CORRESPONDING TO THE TARGET NODE

106-2A

PROPAGATE ROUTING INFORMATION ACCORDING TO A PREDETERMINED PROTOCOL, THE REDIRECT MESSAGE OPERABLE TO DESIGNATE THE TARGET NODE AS THE DESTINATION OF THE MESSAGE ACCORDING TO THE SECOND TRANSPORT MECHANISM

AND/OR

106-2B

SECOND TRANSPORT MECHANISM CORRESPONDS TO A VIRTUAL PRIVATE NETWORK OPERABLE TO ENCAPSULATE MESSAGE PACKETS OF DISSIMILAR PROTOCOLS SUCH THAT THE ENCAPSULATED MESSAGE PACKETS ARE RECOGNIZED BY A ROUTING PROTOCOL OF THE VIRTUAL PRIVATE NETWORK

106-3

FIRST AND SECOND TRANSPORT MECHANISMS COEXIST ON A COMMON PHYSICAL NETWORK

